

NOVEMBER/DECEMBER 2024

**FEMB54B/CEMB54B — HUMAN ANATOMY
AND PHYSIOLOGY**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Name the main organs of the respiratory system.
2. List out the function of the skin.
3. Name the organs associated with the gastrointestinal system.
4. Which organ controls all the metabolites of human body?
5. Interpret the main functions of the skeleton?
6. Name two parts of the central nervous system (CNS).
7. Justify the site where blood cells are formed
8. Illustrate the primary function of red blood cells?
9. Define spermatogenesis.
10. List the main organs of the urinary system.



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Describe the function of the lungs in the respiratory system.

Or

(b) Explain the role of the ear in the sensory organs system.

12. (a) Describe the role of the pancreas in digestion.

Or

(b) Explain the function of the gall bladder.

13. (a) Demonstrate the parts and function of the skin.

Or

(b) Explain the role of the peripheral nervous system (PNS).

14. (a) Illustrate the composition of blood.

Or

(b) List out the functions of the endocrine system.

15. (a) Discuss about the menstrual cycle.

Or

(b) Elaborate the mechanism of urine formation.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the functions of the special sensory organs in human body.

17. Discuss the functions of the different organs associated with the gastrointestinal system.

18. Summarize in detail about the musculoskeletal system and its functions.

19. Elaborate notes on the different parts of the circulatory system and their functions.

20. Discuss in detail about the male reproductive system, including physiological anatomy, spermatogenesis and testicular hormones.